

Test Tuesday - Group Presentation

- ① Solve the problem correctly, showing work and explaining the solution.
- ② Decide which incorrect answer will be picked the most. Why? What common error are the test writers trying to catch?
- ③ Write a new test question just like the one you had, but with different numbers. Give at least 3 possible answers. (Make it multiple choice).

13. What number is in the 4th row from the top and the 2nd column from the left on the chart below?

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

- A. 6
- B. 7
- C. 8
- D. 9
- E. 17

16. Tomas bought a new book on sale. It regularly cost \$17.95, but was on sale for 20% off. How much did the book cost Tomas?

- F. \$ 3.59
- G. \$14.36
- H. \$15.95
- J. \$17.59
- K. \$17.75

20. What is the remainder when 189,540 is divided by 27?

- F. 0
- G. 7
- H. 13
- J. 250
- K. 7,020

18. What whole number is closest to the average of the following numbers?

7, 9, 40, 22, 28

- F. 20
- G. 21
- H. 22
- J. 28
- K. 106

19. Paco wants to redecorate his room. On one wall he wants to put up new wallpaper. The wall is a 13-by-11-foot rectangle and has a door which takes up a 7-by-3-foot rectangular area. After the area of the door is subtracted, how many square feet of wall remain to be covered?

- A. 28
- B. 48
- C. 122
- D. 143
- E. 288

21. A prime number is a whole number greater than 1 that has only 1 and itself as factors. All other whole numbers greater than 1 are considered composite. Which of the following is true of the number 51?

- A. 51 is prime because it has no factors other than 1 and 51.
- B. 51 is prime because it is an odd number.
- C. 51 is composite because it has 3 as a factor.
- D. 51 is composite because it has 13 as a factor.
- E. It is not possible to tell whether 51 is prime or composite.

22. At the movie theater, popcorn costs \$1.75 per bucket, soft drinks cost \$1.50 each, and the price of admission is \$3.75 for all ages. If x is the number of people who buy 1 ticket, 1 bucket of popcorn, and 1 soft drink, which of the following is an expression for the total number of dollars spent at the movie theater by the x people?

F. $3.25x$
 G. $3.75x$
 H. $3.25 + 3.75x$
 J. $3.25x + 3.75$
 K. $7x$

24. Carmen was excited about the possibility of earning the "Mayfield Math Award." In order to do this she must have an average score of at least 92 on her first 5 tests. If her first 4 scores were 96, 90, 89, and 97, what is the lowest possible score Carmen could have on the 5th test and still earn the award?

F. 88
 G. 89
 H. 90
 J. 91
 K. 92

25. In a science experiment with a certain type of seed, 70% of the seeds are sprouting after 3 days, and 85% of the seeds are sprouting after 5 days. If 350 more of these seeds are planted, approximately how many of these 350 would you expect to sprout within 5 days?

A. 52
 B. 105
 C. 245
 D. 297
 E. 350

26. Your teacher used the equation $x + 19 = 120$ when showing the class how to start to solve the following problem.

Josie gets paid 5¢ for each newspaper she delivers. She starts with 120 newspapers. If she has 19 newspapers left when she finishes, how much will she be paid for delivering newspapers?

In the teacher's equation, the variable x represents the number of:

F. dollars Josie will be paid.
 G. cents Josie will be paid.
 H. cents Josie would be paid for delivering the rest of the newspapers.
 J. newspapers Josie has left.
 K. newspapers Josie delivered.

28. The formula for converting temperature from degrees Fahrenheit (F) to degrees Celsius (C) is $C = \frac{5}{9}(F - 32)$. If the average temperature last month was 47.3° Fahrenheit, what was the average temperature last month in degrees Celsius, to the nearest tenth of a degree?

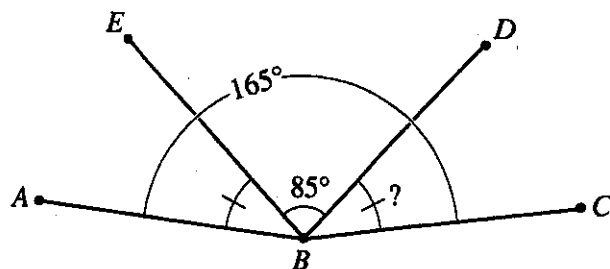
F. -27.5°
 G. -8.5°
 H. -5.7°
 J. 8.5°
 K. 27.5°

29. If $x = 0.7$, which of the following values of y makes the equation below true?

$$5x + y^2 = 9.75$$

A. 2.5
 B. 3.125
 C. 3.14
 D. 4.05
 E. 6.25

30. In the figure below, the measure of $\angle ABD$ is equal to the measure of $\angle EBC$. Also, the measure of $\angle ABC$ is 165° and the measure of $\angle DBE$ is 85° . What is the measure of $\angle DBC$?



F. 40°
 G. $42\frac{1}{2}^\circ$
 H. 45°
 J. 50°
 K. 55°